

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A method of processing particles classified into separate size ranges in an impactor, each size range of particles being in one of a plurality of separate impactor compartments supported ~~on~~side by side on a common compartment manifold supported in the compactor, comprising the steps of moving the compartment manifold and supported separate compartments from the impactor as a unit to a service manifold overlying all of the compartments and securing the compartment manifold and service manifold together, adding a solution for dissolving material into each of the compartments through passageways in the service manifold, and simultaneously moving the compartment manifold and service manifold as a unit under power to enhance dissolution of particles in each compartment.

2. (Previously Presented) The method of claim 1 including removing a liquid sample from the compartments in the compartment manifold after moving the manifolds.

3. (Previously Presented) The method of claim 1 including the steps of connecting a separate valve having an inlet leading to each compartment, drawing the sample into a passageway connected to the respective valve, and discharging the sample in the respective passageway through a separate port on the respective valve.

4. (Original) The method of claim 1 including moving the compartment manifold to clear the service manifold after the simultaneous moving, and providing a power actuator for moving the compartment manifold onto an impactor for an impaction cycle of particles provided.

5.(Previously Presented) The method of claim 1, wherein the step of moving the compartment manifold and service manifold as a unit comprises placing the compartment manifold and service manifold as a unit onto a support pivotable about an axis and rocking the support about the axis with the compartment manifold secured to the service manifold.

6.(Previously Presented) The method of claim 2 wherein the compartment manifold and service manifold are secured together for the simultaneous moving, and subsequent to removing a liquid sample, introducing a wash liquid into the compartments through ports of the service manifold and washing the compartments.

7.(Previously Presented) The method of claim 6 including rocking the compartment manifold containing wash liquid for washing about an axis to agitate the wash liquid, draining the wash liquid, and adding a rinsing liquid to each of the compartments through the service manifold.

8.(Previously Presented) The method of claim 7 including draining the rinse liquid from the compartments, and introducing a flow of dry gas through the service manifold to dry surfaces of the compartments.

9.(Original) The method of claim 8 including removing the compartment manifold from the service manual after providing a flow of dry gas and connecting the compartment manifold to an impactor cover forming passageways for carrying a flow of a gas carrying particles to be analyzed for impacting particles into each of the compartments.

10.(Original) The method of claim 9 including providing an inlet dose of a gas carrying particles to be analyzed to an inlet of the impactor cover.

11-36. (withdrawn)